



ASCA Registered Consulting Arborist #401

ISA Certified Arborist #WC-3172

Assessment of and Recommendations for Fifty-Two (52) Trees at and adjacent to

> 675 Almanor Sunnyvale, CA

Prepared at the Request of: **Chang Architecture**

Site Visit:

Walter Levison, Consulting Arborist (WLCA)

8/28/2015

Report:

(WLCA)

10/5/2015 Revised 9/20/2016

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ATTACHMENT 11 Page 3 of 35





ISA Qualified Tree Risk Assessor

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1 Summary

A total of fifty-two (52) regulated size trees were assessed by Walter Levison, Consulting Arborist (WLCA) on an existing developed commercial property proposed to be redeveloped per the proposed site plan shown on the WLCA tree location map markup in section 12 of this report.

All trees in this initial study exhibit at least one (1) main stem measuring 3 inches diameter or more at 48 inches above mean grade elevation. Refer to the WLCA tree map, WLCA tree data charts, WLCA appraisal worksheet, and WLCA digital images of the trees or tree groupings below in this report for more information.

The following matrix shows trees expected to be removed, retained, impacted, etc. The matrix groups trees by protection status as "protected" and "non-protected" for ease of reference. Trees to remain are highlighted in yellow on page 4:

Tree Group Description	Tree Count	Tree Tag Numbers	Municipal Protection Status	Disposition	Maintenance & Protection Recommendations Summary
(Total tree study by WLCA)	(52)	#1 through #52	Protected & Non- protected		Note: Most important trees on site to retain and protect: #7, 11, 12, 13 (off-site), 14 (off-site), 49.
(Total trees with protected status in study by WLCA)	(34)	#7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 25, 26, 29, 32, 33, 34, 35, 36, 37, 38, 39, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52.	Protected		
Trees to be removed due to direct conflicts and very poor tree condition.	(22)	#8, 10, 15, 16, 17, 20, 25, 26, 32, 33, 34, 35, 36, 37, 44, 45, 47, 48, 49, 50, 51, 52	Protected	To be removed	
Trees to be removed due to direct conflicts and/or very poor tree condition.	(16)	#2, 3, 4, 5, 6, 9, 19, 21, 22, 23, 24, 27, 30, 31, 40, 41	Non- Protected	To be removed	
Trees recommended to be removed by WLCA due to structural and/or health issues	(2)	#15, 17 (already noted in the count above)	Protected	To be removed	

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Tree Group Description	Tree Count	Tree Tag Numbers	Municipal Protection Status	Disposition	Maintenance & Protection Recommendations Summary
Trees expected to be damaged by site plan work	(3)	#38, 39, 46	Protected	To remain	Other protected size trees may also experience significant negative impacts during site work, depending on use of protective fencing, buffers, and heavy temporary irrigation during the work.
Trees expected to be damaged by site plan work	Various	Various	Non- protected		
Trees to remain (require protection and maintenance)	(12)	#7, 11, 12, 13 (offsite), 14 (off-site), 18, 29, 38, 39, 42, 43, 46.	Protected	Retain	Temporary heavy irrigation min. 1x/week, plus trunk buffer wrapping and steel chain link fence panels.
Trees to remain (require protection and maintenance)	(2)	#1, 28	Non- protected	Retain	Temporary heavy irrigation min. 1x/week, plus trunk buffer wrapping and steel chain link fence panels.
Trees requiring special arborist maintenance measures if retained	(4)	#7, 10, 15, 43	Protected	#7, 43 to be retained. #10, 15 proposed to be removed.	#7: Will require cabling or removal of one of two codominant mainstems at fork at 80 feet above grade. #10: Would require cabling and/or through-bolt bracing per ANSI A300 standards for tree support systems. (Tree is currently slated for removal per project team.) #15: Monitor tree for decline, and remove entire tree if tree declines to "poor" overall condition (i.e. below its current overall condition rating of 50% "fair", which is only 1 percent above the 49% threshold between "fair" and "poor"). #43: Will require cabling per ANSI A300 standards for tree support systems.

RECAP: 52 Total Trees Surveyed.

Removals: 22 protected size trees, and 16 non-protected size trees, for a total of 38 removals. Retain: 12 protected size trees, and 2 non-protected size trees, for a total of 14 trees being retained.

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Tree Condition (as of October 2015 survey date):

Site Issues

(1) Soil Moisture Deficit: Coast redwoods (Sequoia sempervirens), evergreen ash (Fraxinus uhdei), and European birch (Betula pendula) need very heavy periodic supplemental irrigation year round in the Bay Area to maintain good vigor, especially at South Bay locations such as this site where the ambient air is relatively dry, and summer rains are non-existent. This winter and spring we received well below the normal average for natural rainfall.

I would suggest not planting *Betula pendula* in the south bay due to its inappropriateness for this climate. Good birch alternatives exist in the wholesale nursery trade such as 'Dura Heat' birch and Heritage river birch (*Betula nigra* 'Heritage') which are much more drought resistant than European birch.

Alternatives for coast redwood include drought tolerant cedar species such as Atlas cedar (Cedrus atlantica) and deodar cedar (Cedrus deodara).

- (2) Insect Issues / Drought / Pitch Canker: Monterey pine (*Pinus radiata*) #15 could fall into a rapid spiral of decline initiated by bark beetles which are attracted to pines under stress from soil moisture deficit (drought stress). Beetle presence can cause tree decline very rapidly, and the beetles are also the vector for transmission of pine pitch canker fungus, which in itself can be fatal or cause rapid decline in Monterey pines. I suggest considering this tree for removal, or at the very least monitoring its condition, and slating it for removal if it declines to 49% overall condition (poor) which would be only a single digit drop from its current overall rating of 50% (fair).
- (3) Heavy Limb Endweight & Crowded Limbs: As is common with open-grown trees in commercial settings such as the 675 Almanor site, scaffold limbs and branches achieve extended form due to the lack of normal, crowded forest conditions in which the trees would normally be growing in their natural range. This results in trees that are over-extended and are prone to splitout from excessive load forces acting on the limb and branch attachments. Many of the trees at site could benefit from structural renovation pruning under the direct monitoring and guidance of an ISA Certified Arborist to remove crowded stems and reduce the endweights of heavy limb systems by selectively removing branch endweight per ANSI A300 pruning standards. This mainly involves removal of the outermost portions of limbs to reduce their lengths. This technique is far to infrequently performed in the Bay Area, but has been scientifically proven to reduce risk of limb and branch splitouts if performed correctly.
- (4) Codominant Mainstem Cabling or Bracing: Many of the coast redwoods at this site exhibit codominant mainstems with narrow forks that present a structural defect. Coast beefwood also exhibit this trait. Trees being retained such as #7 and 43 will require cabling and/or bracing with through-bolt cables if the trees are being retained. Alternatively, one of two codominant mainstems on certain trees such as #7 could be removed at the fork to avoid cabling or bracing (see the last row of information in the matrix above).

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2 Assignment and Background

The author Walter Levison, Consulting Arborist (WLCA) was retained by the Client to tag and assess all regulated trees on and adjacent to the subject property that appeared would be affected by proposed site plan work at 675 Almanor. WLCA was also requested to prepare a formal written arborist report per City of Sunnyvale standards.

This document contains tree data charts, appraisal (valuation) charts which determine the dollar value of each tree per the most current edition of the Guide for Plant Appraisal and the Western Chapter ISA publication known as "Species Classification and Group Assignment (2004 edition), digital images of each tree or tree groupings, a tree location map mark-up (using landscape sheets L1.0 and L1.1 by Reed Associates Landscape Architecture as a base sheet) showing all fifty-two tree trunk locations noted by numeric designation "1" through "52", discussion of existing site conditions and expected negative impacts related to current proposed construction work, and recommendations for protection and maintenance of trees that (preliminarily) appear to be retainable based on the current proposed scope of commercial site plan construction.

The WLCA tree data charts attached to this report include recommendations for tree maintenance and protection listed as codes. These are a quick reference for project team members working on the preconstruction, construction, and post-construction phases of the project.

Appraisal data is contained in a separate worksheet with most or all data used in the calculations shown transparently. The worksheet also contains an extensive legend and notes section for reference.

The entire document, including the tree data charts and tree protection map, were revised on 9/20/2016 per direction by the project architect, in order to conform to the most recent set of submittal plans. The latest plan iteration removes all site trees within the Hetch Hetchy (SFPUC) water delivery system right-of-way which spans across the property in an east-west trajectory.

3 Protected Trees

The City of Sunnyvale, California protects private trees with a single main stem measuring at least 12.1 inches diameter at 48 inches above grade, and private multi-stem trees with stems totaling at least 36 inches diameter at 48 inches above grade.

Per this definition, there are 34 protected trees and 18 non-protected trees at the site. See the tree disposition matrix above in the summary section of this report for details.

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4 Discussion – Construction Impacts

WLCA reviewed only the proposed bird's-eye site plan document used to create the tree location map attached to the end of this report. Therefore, the following discussion is preliminary only:

- 1. Smaller trees: Trees with minimal offsets from the existing office complex footprint appear to be retainable, such as trees #1, 21, 22, 23, 24. However, renovation of existing concrete walkway, patio, retaining wall, and other related landscape work in these areas may require that some of these smaller diameter, less valuable trees end up being removed, even though the team will make an effort to protect and retain these trees.
- 2. Important trees: Trees that need to be retained given their high value per my appraisal worksheet include coast redwoods and cedars such as trees #7, 11, 12, 13 (off-site), and 14 (off-site). Tree #49 was also a high value specimen, but is now to be removed due to its location on the SFPUC water delivery right-of-way.

Special construction specifications, methods, and materials should be used when renovating the planter areas, asphalt parking lot surfacing and baserock, in order to avoid causing damage to root systems of these trees that may be quite extensive. Some of these trees may have lateral roots that extend horizontally as far as 40 to 50 feet radius out from trunk through the parking lot baserock, just under the asphalt surfacing, which is actually quite common with larger mature trees such as these. Also helpful will be arborist monitoring of the work, which may or may not be required as a City condition of approval for this project. Nevertheless, arborist involvement before, during, and after construction can help avoid tree decline, tree death, etc. by limiting work in critical root zone areas, and by verifying with a soil moisture meter/probe that heavy irrigation is being applied to the trees' root zones during construction.

3. Increasing open soil areas around trees: Some large trees are experiencing problems due to curbs and other hardscape that is limiting their root extension laterally, and causing the trees to remain stressed, stunted, or otherwise in decline due to their inability to gain adequate soil moisture.

Trees such as redwoods being retained along the Almanor street frontage (e.g. trees #7, 11, and #12) could significantly benefit from enlargement of open soil areas by carefully shallow-peeling the existing curb and asphalt surfacing off from their root zones within zero to 25 feet of the trunks under direct arborist guidance on site during demolition. The project team did redesign the planter areas and sidewalks in these areas which will result in better preservation of the existing open soil root zones of the trees. Toward this end, the sidewalks will meander in half-moon shaped arcs toward the parking lot, which will require that an easement be granted to allow the City walk to encroach into the private land of this site.

5 Appraisal Methodology

All fifty-two (52) off-site and on-site trees were considered larger than replaceable size given that replacement trees in the nursery trade are 48" box size max. Therefore, the correct methodology for determination of tree value was use of the trunk formula method or TFM.

Trunk cross sectional area data from the Guide for Plant Appraisal and the WC-ISA pamphlet on species data and group assignment data were inserted into an Excel spreadsheet in a transparent manner.

Trees with multiple mainstems were treated by summing up the cross sectional areas of all main stems to determine basic value. These trees are noted in the appraisal worksheet with bold black to indicate that

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WLCA manually adjusted the TA using data from the *Guide*. Trunk cross sectional area data is also bolded black. WLCA rounded down when determining multi-stem cross sectional area totals, for reasonableness.

Per appraisal protocol, main stems measuring greater than 30 inches diameter were reduced by using the Guide's "adjusted trunk area" data which reduces the cross sectional area for larger trees, achieving more reasonable basic values for larger landscape trees. These trees are also noted in the appraisal worksheet with bold black to indicate that WLCA adjusted the trunk cross section data downward per the Guide, and the trunk area in square inches is also bolded black. Again, WLCA rounded all mainstem diameters down for reasonableness when calculating the individual cross sectional areas for single stem and multi-stem trees with stems larger than 30 inches diameter each.

For "location" data determination (site + contribution + placement / 3), WLCA used "0.85" for the "site" factor for all 52 trees. Contribution and placement were determined on a tree by tree basis.

Final dollar values are shown in the right hand column of the appraisal charts, with values rounded down to the nearest \$100 for trees valued over \$5,000 and rounded to the nearest \$10 for specimens valued less than \$5,000, per the Guide.

The total value of all 52 on-site and off-site trees in this initial study was determined to be **\$270,250**. Refer to the attached appraisal worksheet for more information. Note that the appraisal table was not revised during the 9/20/2016 update.

6 Recommendations

PRE-PROJECT ITEMS

1. Project Arborist:

Retain an official project arborist or "PA" to the project to perform initial signoff inspection to verify trunk buffer and chain link fencing installation prior to start of demolition, and (if required) perform periodic signoff inspections and written letter style reports to planning division, root zone soil moisture monitoring, demolition monitoring, etc. The PA should be an ASCA Registered Consulting Arborist with extensive experience in construction monitoring such as Walter Levison, Consulting Arborist, or another consultant with similar background and experience.

2. High Risk Trees:

Monterey pine #15 will be removed from the landscape as a low value, higher risk type tree.

3. Design / Trenching:

Align any and all proposed utility and landscape excavation trenches (e.g. landscape irrigation piping, TV, water, fire water, storm water, sanitary sewer, gas, low voltage electric, high voltage electric, etc.) such that there is a 15 to 25 foot minimum horizontal offset between trench edges and trunk edges of trees being retained.

The PA should verify that all final building set plan sheets comply with the recommendations outlined in this arborist report.

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4. Design / Important Trees:

Design all new landscaping, hardscape, curbs, irrigation lines, utilities, lighting conduit, etc. to be at least 15 to 25 feet offset from important large high value trees being retained such as **trees #7, 11, 12, 13, and 14.**

The PA should verify that all final building set plan sheets comply with the recommendations outlined in this arborist report.

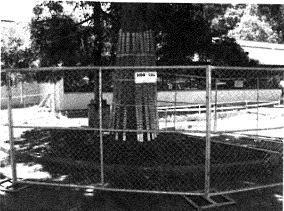
5. Root Protection Zone / Chain link:

Install chain link fence panels to be set in place with wires and rebar or other heavy duty pins around **all trees to be retained** (see images at right). This fencing shall be known as the root protection zone or "RPZ". WLCA will work with the project general contractor to determine the actual final routing for the chain link RPZs. Current minimum recommended distance from trunk edges to fence lines is 15 to 25 feet radius (i.e. the "canopy driplines" before any pruning has been performed).

Fencing material used for all protective fences must be steel chain-link panels.

Use straw erosion control wattles pinned down with a wooden dowel every two horizontal feet along the bottom edges of the panels to control liquid waste encroachment into the RPZs (see images above right).





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The protective fencing must not be temporarily moved during construction. Materials, tools, excavated soil, liquids, substances, etc. shall not be placed or dumped, even temporarily, inside the RPZ. Storage, staging, work, or other activities shall not occur inside the RPZ without the expressed written (emailed) permission from the assigned project arborist.

6. Signage:

The TPZ fencing should have one sign affixed with UV-stabilized zip ties to the chain link at eye level for every 20-linear feet of fencing, minimum 8"X11" size each, plastic laminated or otherwise waterproofed, stating:





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ROOT PROTECTION ZONE FENCE ZONA DE PROTECCION PARA ARBOLES

-NO ENTRE SIN PERMISO. LLAME EL ARBOLISTA WALTER LEVISON-

DO NOT MOVE OR REMOVE WITHOUT AUTHORIZATION FROM WALTER LEVISON, PROJECT ARBORIST

CALL OR EMAIL 48-HRS ADVANCE FOR PERMISSION

TELEFONO CELL 415-203-0990 / EMAIL DRTREE@SBCGLOBAL.NET

7. Trunk Buffer:

Affix a trunk buffer around the trunks of all trees being retained prior to demolition commencement. See image below right for sample spec.

Best Management Practice for tree protection of all trees to remain on site is to wrap an entire roll of orange fencing around the lower 8 feet of trunk of each tree, and affix 2X4 or 1X4 boards (or waste wood of similar dimensions) around the circumference of the trunk, and secure with duct tape on the outside (do not use wires). See specification image at right, which shows a tree wrapped with high grade stiff red plastic fencing material from White Cap rather than the more commonly available orange snow fencing from Home Depot which is more flexible and less protective.



8. Demolition1 / Arborist Monitor:

Call the project arborist to monitor during special periods when heavy demolition, excavation, etc. are occurring in close proximity to trees, such as during demolition of existing walkways and foundation materials within 15 to 25 feet of large mature trees being retained.

9. Demolition2 / Leave It Alone:

Avoid removal of any concrete, asphalt, or metal materials that are currently located in the subgrade (root systems) within 10 horizontal feet of the trunk edge of any tree being retained, to avoid causing irreversible damage to fine roots, woody roots, and root crown areas of trees being retained. If necessary, saw cut the materials using a circular saw with a diamond or carbide demolition blade at 10 horizontal feet out from trunk edges of the trees, and leave the remaining materials as-is between zero and 10 feet out from the trunks to avoid damaging the root systems.

As noted above in this report, retain Walter Levison or another consulting arborist to monitor demolition, and verify that fencing protection is placed immediately after, and heavy irrigation applied immediately after, root zones of trees being retained are opened up during demolition. Tree root zones under old hardscape being



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removed are subject to desiccation and damage when the surfacing hardscape is removed, since that hardscape previously acted as an anti-desiccant and soil protection "buffer".

10. Water Spray:

If standard pressure water is available on site, spray off foliage of all trees being retained on a 1x/month basis using a high power garden hose to wash both the upper and lower surfaces of the foliage. This helps keep the gas portals (stomata) unclogged for better gas exchange which is crucial for normal tree function (see image

above right).

11. Irrigation / Temporary:

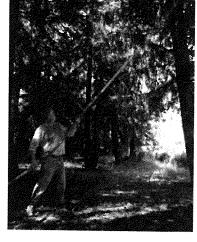
Provide heavy periodic supplemental irrigation on a schedule to be determined by the PA (see sample images at right). The PA will probe the soil during site inspections to determine if irrigation is necessary, and if so, at what frequency, duration, and location(s). Typical irrigation for high water use type trees such as coast redwoods on construction sites is heavy 1x/week irrigation, approximating 50 to 100 gallons, per tree, 1x/week minimum, on a single day.

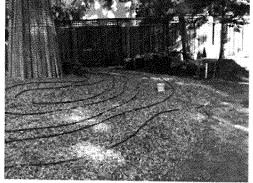
The most beneficial construction period irrigation locations are typically out at the RPZ fencelines where tree root systems will be damaged or destroyed by vehicle traffic, excavation, trenching, and other subgrade work.

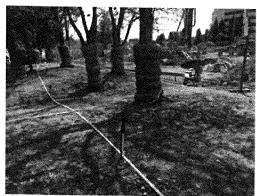
Application method(s) can include, but are not limited to:

- Water tank/spray system.
- Domestic water supply with garden hose system and/or soaker hose and/or emitter lines snaked throughout the RPZ areas with extra hose sections laid along the actual RPZ fencelines themselves
- On-site tank with gravity feed hose.
- Over-grade PVC irrigation piping build over the soil surface and affixed with high volume adjustable type flood bubblers (see image at right).

A four-inch thick layer of chipper truck type wood chip mulch often allows for better downward movement of surface applied irrigation water down into the root zones of trees (see spec images above right).







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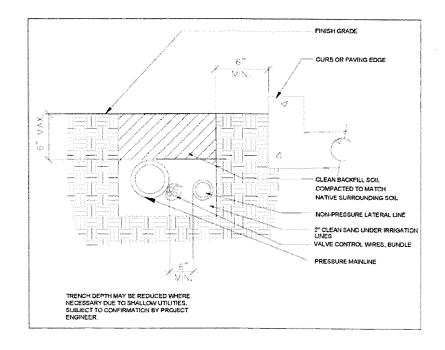
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12. Irrigation / Permanent:

Type: It is suggested that all permanent irrigation for existing trees be built either over grade (e.g. poly tubing with adjustable flood bubblers, over-grade PVC "floating system" as shown in image on page 10 above) or in verv shallow trenches with maximum 3 to 6 inches of cover over pipe top elevations (see image at right, copyright Sandis Civil 2015):

Horizontal Encroachment Limits:

Avoid all PVC irrigation pipe trench cuts within 15 to 25 horizontal feet of any tree being retained, if possible.



Depth: Avoid all cuts below 6 inches depth of total cut below existing grade elevations.

Spray Limits: Avoid irrigation spray contact onto the trunk bark of any tree.

Redwood Irrigation: Provide coast redwood specimens with heavy periodic irrigation throughout the year in an attempt to boost the trees' vigor. Coast redwoods require year-round heavy supplemental irrigation on at least a once-weekly basis.

13. Pruning (may be performed prior to commencement of site work):

Retain a qualified ISA-Certified Arborist to perform or directly monitor and advise on site;

- Removal of selected crowded branches and limbs on trees being retained per ANSI-A300 pruning standards for thinning (section 5.6.2.1 "thinning should result in an even distribution of branches on individual limbs and throughout the crown" (i.e. it is NOT lion-tailing). Section 5.6.2.2 "not more than 25 percent of the crown should be removed within an annual growing season".
- Reduction of branch endweight as necessary on trees being retained, to reduce load forces on branch attachments, per ANSI A300 pruning standards.
- Trees #7 and #43 should have cables and/or through-bolt bracing installed between upright codominant mainstems and large diameter limbs, per ANSI A300 standards for tree support systems and the ISA companion publication "Best Management Practices - Tree Support Systems: Cabling, Bracing, and Guying" (or 2nd alternative for redwood #7 is to remove one of the two codominant mainstems at the fork at 80 feet above grade which would avoid the need to install arbor cables).

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Do not perform topping, shearing, lion-tailing (removal of inner and lower wood), or thinning pruning which are contrary to the American National Standard Institute A-300 Standard for Tree Care / Tree Shrub and Other Woody Plant Maintenance / Pruning.

The tree care contractor retained for this work shall contact the project arborist via phone 48 hours minimum prior to pruning to allow the PA to monitor portions of this work. Refer to the approved vendor list in this report for local tree care contractors.

7 Consultant's Qualifications

-	
	Contract Town Arborist, Town of Los Gatos, Planning Division. 11/15-present
	ISA Qualified Tree Risk Assessor
	ISA Qualified Tree Risk Assessor Course, Palo Alto, CA. 2013
	ISA Certified Tree Risk Assessor Course graduate, 2009 (TRAQ) Vancouver, B.C., Canada and Palo Alto, California.
	ASCA Registered Consulting Arborist (RCA) #401
	Millbrae Community Preservation Commission (Tree Board) 2001-2006
0	ASCA Arboriculture Consulting Academy graduate, class of 2000
	ISA Certified Arborist (CA) #WC-3172
	B.A. Environmental Studies/Soil and Water Resources UC Santa Cruz, Santa Cruz, California 1990
٥	Peace Corps Soil and Water Conservation Extension Agent Chiangmai Province, Thailand 1991-1993
	Associate Consulting Arborist Barrie D. Coate and Associates 4/99-8/99
	Contract City Arborist to the City of Belmont Department of Planning and Community Development 5/99-present
	Continued education through attendance of arboriculture lectures and forums sponsored by The American Society of Consulting Arborists, The International Society of Arboriculture (Western Chapter), and various governmental and non-governmental entities.
(M)	y full curriculum vitae is available upon request)





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8 Assumptions and Limiting Conditions

Any legal description provided to the consultant/appraiser is assumed to be correct. Any titles and ownership to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised and evaluated as through free and clean, under responsible ownership and competent management.

It is assumed that any property is not in violation of any applicable codes, ordinance, statutes, or other government regulations.

Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant/appraiser can neither guarantee nor be responsible for the accuracy of information provided by others.

The consultant/appraiser shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.

Unless required by law otherwise, the possession of this report or a copy thereof does not imply right of publication or use for any other purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant/appraiser.

Unless required by law otherwise, neither all nor any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales, or other media, without the prior expressed conclusions, identity of the consultant/appraiser, or any reference to any professional society or institute or to any initiated designation conferred upon the consultant/appraiser as stated in his qualifications.

This report and any values expressed herein represent the opinion of the consultant/appraiser, and the consultant's/appraiser's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.

Sketches, drawings, and photographs in this report, being intended for visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys unless expressed otherwise. The reproduction of any information generated by engineers, architects, or other consultants on any sketches, drawings, or photographs is for the express purpose of coordination and ease of reference only. Inclusion of said information on any drawings or other documents does not constitute a representation by Walter Levison to the sufficiency or accuracy of said information.

Unless expressed otherwise:

- information contained in this report covers only those items that were examined and reflects the conditions of those items at the time of inspection; and
- b. the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.

Loss or alteration of any part of this report invalidates the entire report.

Arborist Disclosure Statement:

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Tree are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborist cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning, and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate the trees.

9 Certification

I hereby certify that all the statements of fact in this report are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Signature of Consultant

14 of 22

Site Address: 675 Almanor, Sunnyvale, California

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Registered Member, American Society of Consulting Arborists and Member of the International Society of Arboriculture

Cell (415) 203-0990 / Email: drtree@sbcglobal.net





ASCA Registered Consulting Arborist #401

ISA Certified Arborist #WC-3172

10 Approved Vendors List

Service	Company	What they offer	Contact
Transplanting	Tree Movers Inc.	Large specimen trees, transplant services.	650-968-6117
	Valley Crest Tree Co. tree moving division	Large specimen trees, transplant services.	818-223-8500
Pruning	Advanced Tree Care	Pruning, root crown excavation, fertilization, tree installation, support systems for high risk trees, SOD phosphate sprays.	650-839-9539
	Maguire Tree Care	Pruning performed directly by an ISA Certified Arborist	650-245-2620
	Trees 360	Pruning performed directly by an ISA Certified Arborist (upon request).	408-866-1010
Special Tree Sources	Specialty Oaks Lower Lake, CA	California native oak species	www.specialtyoaks.com
	Oracle Nursery	Various oaks and hybrid elms. Only local purveyor of hard to find Italian oak (Q. frainetto 'Forest Green')	www.oracleoaknursery.com
	Sweet Lane Wholesale Nursery Santa Rosa, CA	Can import rare oaks such as the fantastic Forest Green Hungarian oak, from Oregon growers. Also may be able to request the excellent Cathedral live oak (Quercus virginiana 'Cathedral')	www.sweetlanenursery.com
	L.E. Cooke Nursery Visalia, CA	Only source of <i>Platanus</i> 'Roberts' (Roberts sycamore) in California that I am aware of. An excellent tree for use in parking lots and other urban situations.	L.E. Cooke Co 26333 Road 140 Visalia, CA 93292 Phone: 559-732-9146 Toll Free: 800-845-5193 Fax: 559-732-3702





ASCA Registered Consulting Arborist #401

ISA Certified Arborist #WC-3172

Version: 9/20/2016

11 Images 8/28/2015 (Note: Some trees not shown)

Tree Tag Number	Image	Tree Tag Number	Image
Left side: 9 Center: 7		7	
10		11	74

16 of 22

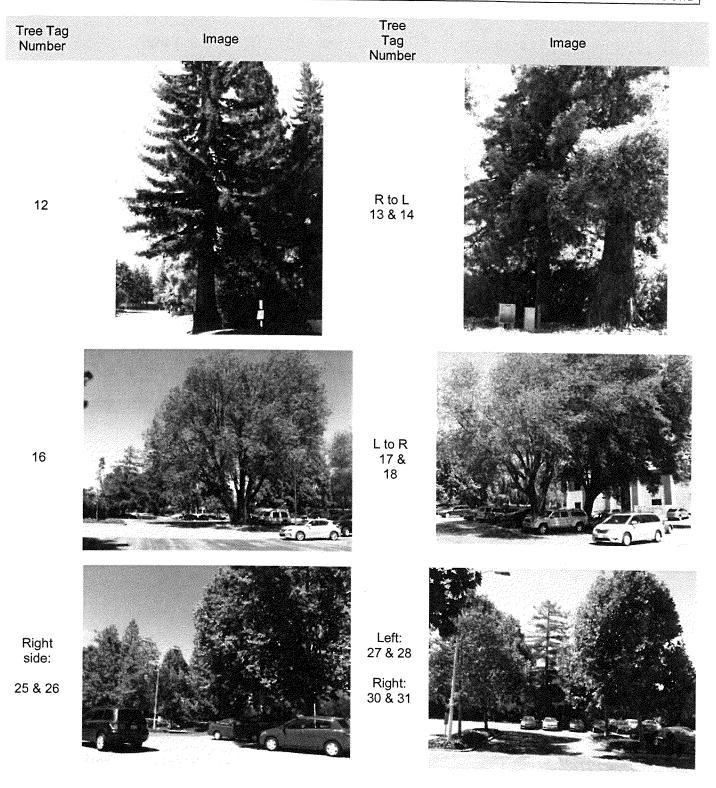
Site Address: 675 Almanor, Sunnyvale, California Walter Levison © 2016 All Rights Reserved





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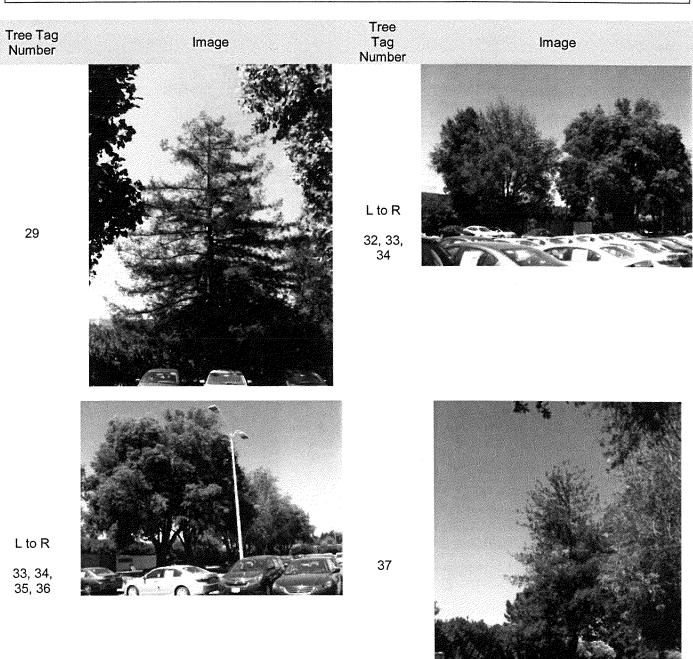
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Version: 9/20/2016





ASCA Registered Consulting Arborist #401

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Tree Tag Number	lmage	Tree Tag Number	lmage
38		39	
Center: 42 & 43 looking east		L to R 44 & 45 Looking east	

19 of 22

Site Address: 675 Almanor, Sunnyvale, California Walter Levison © 2016 All Rights Reserved

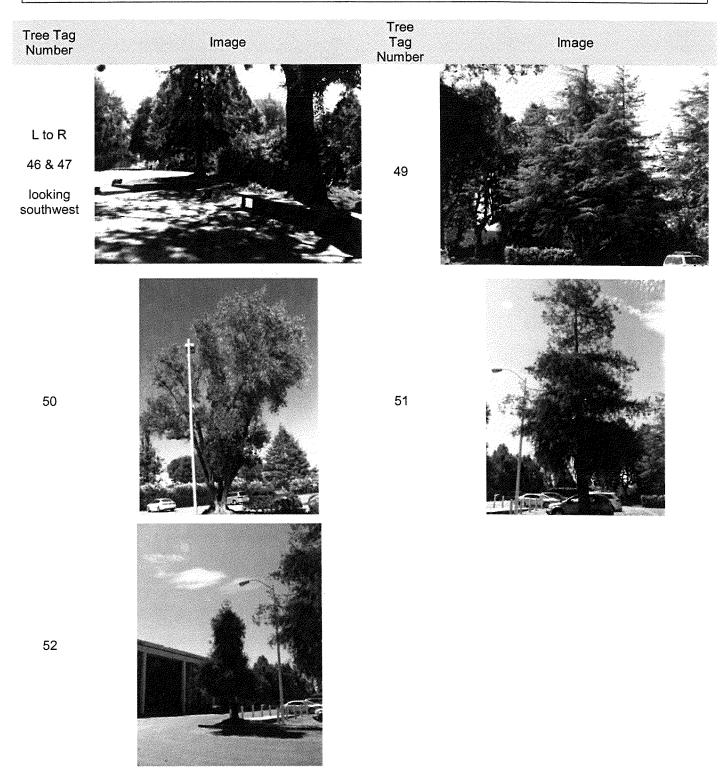
Version: 9/20/2016





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20 of 22

Site Address: 675 Almanor, Sunnyvale, California Walter Levison © 2016 All Rights Reserved

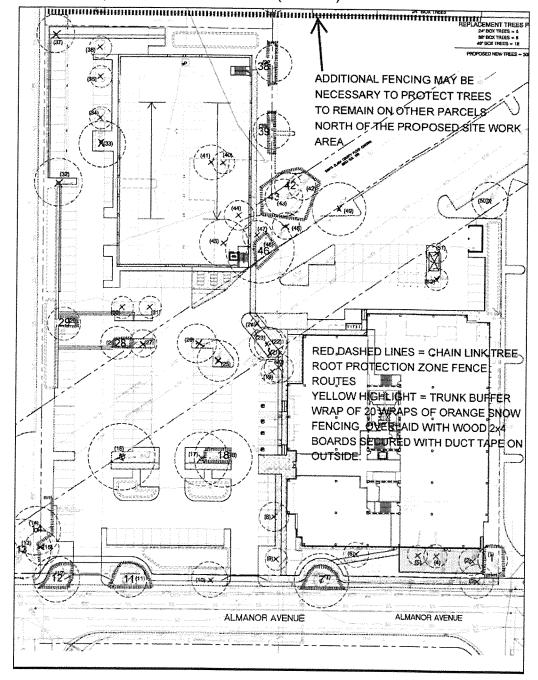




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12 Tree Location Map Revised 9/20/2016 (WLCA)



Trees to be retained are shown in large type, with red dashing indicating WLCA's suggested minimum chain link root protection zone routing, and yellow highlight indicating trunk buffer wrap around each tree trunk as redundant protection for the above-ground trunk tissues. Recent 2016 decisions dictated that all trees located on the Hetch Hetchy water delivery system (SFPUC) right-of-way be indicated as to be removed.

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Site Address: 675 Almanor, Sunnyvale, California Walter Levison © 2016 All Rights Reserved

ATTACHMENT 11 Page 24 of 35





ISA Qualified Tree Risk Assessor

ASCA Registered Consulting Arborist #401

ISA Certified Arborist #WC-3172

13 Appraisal Worksheet (WLCA), Attached 14 Tree Data Charts Revised 9/20/2016 (WLCA), Attached

	Walter Levison consulting arborist																					
	Appraisal Worksheet, 675 Almanor, Sunnyvale, California 10/5/2015																					
	Ln 1		Ln 2	Ln 3	Ln 4		Locati	on		Ln 5	Ln 6	6 Ln 7 Ln 8 Ln 9 Ln 10 Ln 11 Ln 11.1 Ln 11.2 Line 12 Line 13 Lin									Line 14	Line 15
Tree #	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	Grn Bk"	"Gm Bk" Species	"Gm Bk" TA _r	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Tainer	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
1	Lh	19	78%	7	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	38.47	38.47		36.375	\$ 3,358.04	\$ 1,453.69	\$1,450
2	Lh	19	79%	7.6	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	45,24	45.34		43.2516	\$ 3,927.56	\$ 1,722.04	\$1,720
3	Qr	31	85%	6.3	63%	85%	20%	85%	2	70%	2.24	\$172.73	\$172.73	\$345.46	\$77.04	94.26	31.16		28.9167	\$ 2,573.20	\$ 969.67	\$970
4	Lh	19	70%	multi stem	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	94.00	94.00		91.91	\$ 7,957.45	\$ 3,091.47	\$3,090
5	Lh	19	66%	multi stem	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	35.00	35.00		32.91	\$ 3,071.07	\$ 1,124.93	\$1,120
6	Lh	19	70%	multi stem	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	59.00	59.00		56.91	\$ 5,058.75	\$ 1,965.32	\$1,970
7	Ss	34	75%	61.1	83%	85%	80%	85%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1894.00		1894	1889.25	\$ 69,038.59	\$ 30,204.38	\$30,200
8	Вр	6	35%	16.8	63%	85%	25%	80%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	7271,56	221.56		217.758	\$ 10,244.76	\$ 681.28	\$680
9	Lh	19	25%	7.9	62%	85%	15%	85%	1	90%	2.09	\$172.73	\$172.73	\$345.46	\$82.82	48.88	48.99		46.9019	\$ 4,229.87	\$ 586.89	\$590
10	Cs	8	50%	24.6	72%	85%	45%	85%	3	50%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	475 (5	475.05		471.251	\$ 21,768.51	\$ 3,900.19	\$3,900
11	Ss	34	75%	41.8	82%	85%	80%	80%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1191,00		1191	1186.25	\$ 43,477.51	\$ 18,640.98	\$18,600
12	Ss	34	79%	61.8	78%	85%	80%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1711.00		see note #4	1706.25	\$ 62,384.71	\$ 27,024.02	\$27,000
13	Ss	34	80%	75.7	65%	85%	30%	80%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	2226.00		2226	2221.25	\$ 81,110.11	\$ 29,524.08	\$29,500
14	Ss	34	75%	36.5	68%	85%	40%	80%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	974,00		974	969.25	\$ 35,587.39	\$ 12,766.98	\$12,800

N)	Walter I	

	CONSULTING ARBORIST Appraisal Worksheet, 675 Almanor, Sunnyvale, California 10/5/2015																					
	I	T				T	T	A	hhi	aisai	VVOI	KSNEEL,	IIA C10	nanor,	Sunny	vale, t	Jaillorr	na It	101201	ວ 		
	Ln 1		Ln 2	Ln 3	Ln 4		Locati	on		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
Tree #	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	"Grn Bk" Groun	"Grn Bk" Species	"Grn Bk" TA _r	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Ta _{iner}	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
15	Pr	25	50%	24	60%	85%	15%	80%	4	10%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	452,16	452.16		447.41	\$ 16,613.29	\$ 498.40	\$500
16	Fu	16	53%	73	68%	85%	50%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	2187.00		2187	2182.25	\$ 79,692.07	\$ 8,658.54	\$8,700
17	Fu	16	35%	43.1	68%	85%	50%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1274,00		1273	1268.25	\$ 46,459.03	\$ 3,333.44	\$3,300
18	Fu	16	55%	43.3	68%	85%	50%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1273.00		1273	1268.25	\$ 46,459.03	\$ 5,238.26	\$5,200
19	Вр	6	70%	multi stem	63%	85%	15%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	60.00	60.00		56.2	\$ 2,900.31	\$ 385.74	\$390
20	Вр	6	53%	12.7	63%	85%	15%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	126.61	126.61		122.813	\$ 5,928.52	\$ 597.00	\$600
21	Вр	6	50%	multi stem	63%	85%	15%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	125.00	125.00		121.2	\$ 5,855.21	\$ 556.25	\$560
22	Вр	6	57%	7.5	63%	85%	15%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	ant 16	44.16		40.3563	\$ 2,180.06	\$ 236.10	\$240
23	Вр	6	50%	multi stem	67%	85%	25%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	174,00	174.00		170.2	\$ 8,082.75	\$ 808.28	\$810
24	Вр	6	65%	7	67%	85%	25%	90%	3	30%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	38.47	38.47		34.665	\$ 1,921.33	\$ 249.77	\$250
25	Pa	26	78%	18	73%	85%	55%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	254.34	254.34		250.54	\$ 11,735.01	\$ 5,369.94	\$5,400
26	Pa	26	75%	14.7	70%	85%	45%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	169.63	169.63		165.831	\$ 7,884.12	\$ 3,311.33	\$3,300
27	Ра	26	67%	7.4	63%	85%	25%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	42,00	42.99		39.1866	\$ 2,126.88	\$ 722.01	\$720
28	Pa	26	80%	11	68%	85%	40%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	94.99	94.99		91.185	\$ 4,490.73	\$ 1,963.95	\$1,960
29	Ss	34	40%	30.4	63%	85%	35%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	707.00		707	702.25	\$ 25,879.27	\$ 4,589.26	\$4,590
30	Pa	26	75%	10.8	70%	85%	45%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	91 SE	91.56		87.7624	\$ 4,335.14	\$ 1,820.76	\$1,820

	Walter Levison consulting arborist																					
	T	T		T	1	T		Α	ppr	aisa	Wor	ksheet,	675 AI	manor,	Sunny	vale,	Califorr	nia 10	0/5/201	5		
	Ln 1		Ln 2	Ln 3	Ln 4		Locat	ion	C SUNGAR	Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
Tree #	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Sife	Contribution	Placement	Group	"Gm Bk" Species	"Gm Bk" TA _r	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Taincr	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
31	Ра	26	78%	9.7	70%	85%	45%	80%	3	80%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	ďЖ	73.86		70.0607	\$ 3,530.42	\$ 1,542.09	\$1,540
32	Fu	16	45%	multi stem	70%	85%	55%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	874.00		871	866.25	\$ 31,842.31	\$ 3,009.10	\$3,010
33	Fu	16	64%	43.1	70%	85%	45%	80%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1274,00		1273	1268.25	\$ 46,459.03	\$ 6,244.09	\$6,200
34	Fu	16	55%	38.8	68%	85%	50%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1069,00		1063	1058.25	\$ 38,823.43	\$ 4,377.34	\$4,380
35	Fu	16	20%	33.7	58%	85%	20%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	895.00		835	830.25	\$ 30,533.35	\$ 1,068.67	\$1,070
36	Fu	16	45%	39.2	63%	85%	35%	70%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1108,00		1106	1101.25	\$ 40,386.91	\$ 3,453.08	\$3,450
37	Ss	34	70%	26.3	63%	85%	35%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	942.68	542.98		538.227	\$ 19,915.38	\$ 6,180.41	\$6,200
38	Ss	34	75%	28.2	63%	85%	35%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	524.26	624.26		619.513	\$ 22,870.97	\$ 7,604.60	\$7,600
39	Ss	34	35%	multi stem	58%	85%	20%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	340.00	340.00		335.25	\$ 12,535.15	\$ 1,791.48	\$1,790
40	Fu	16	78%	6.8	58%	85%	10%	80%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	98,30	36.30		31.5484	\$ 1,492.56	\$ 203.73	\$200
41	Fu	16	75%	8.4	58%	85%	10%	80%	4	30%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	56,88	55.39		50.6396	\$ 2,186.72	\$ 287.01	\$290
42	Ss	34	55%	15.7	72%	85%	40%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	109,40	193.49		188.745	\$ 7,208.22	\$ 1,988.87	\$1,990
43	Ss	34	70%	multi stem	75%	85%	50%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1087.00	1087.00		1082.25	\$ 39,696.07	\$ 14,588.31	\$14,600
44	Ss	34	68%	26.4	72%	85%	40%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	547.11	547.11		542.364	\$ 20,065.80	\$ 6,845.11	\$6,800

	Walter Levison CONSULTING ARBORIST Appraisal Worksheet, 675 Almanor, Sunnyvale, California 10/5/2015																					
	Ln 1		Ln 2	Ln 3	Ln 4		Locati			Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1			Line 13	Line 14	Line 15
Tree #	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	"Grn BK" Group	"Gm Bk" Species	"Gm Bk" TA,	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Talnor	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
45	Gr	17	35%	34.1	67%	85%	35%	80%	2	30%	2.24	\$172.73	\$172.73	\$345.46	\$77.04	BF2.00		882	879.76	\$ 68,122.17	\$ 4,768.55	\$4,770
46	Ss	34	40%	15.8	73%	85%	45%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	1915.97	195.97		191.217	\$ 7,298.12	\$ 1,498.55	\$1,500
47	Gr	17	44%	31.8	70%	85%	45%	80%	2	30%	2.24	\$172.73	\$172.73	\$345.46	\$77.04	739.00		739	736.76	\$ 57,105.45	\$ 5,276.54	\$5,300
48	Gr	17	25%	20.8	58%	85%	10%	80%	2	30%	2.24	\$172.73	\$172.73	\$345.46	\$77.04	339.62	339.62		337.382	\$ 26,337.40	\$ 1,152.26	\$1,150
49	Са	8	84%	29.3	78%	85%	60%	90%	3	90%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	673.07	673.91		670.115	\$ 30,808.87	\$ 18,245.01	\$18,200
50	Oe	22	37%	multi stem	70%	85%	35%	90%	3	90%	3.8	\$172.73	\$172.73	\$345.46	\$45.46	396.00	396.00		392.2	\$ 18,174.87	\$ 4,236.56	\$4,240
51	Ss	34	35%	25.6	60%	85%	25%	70%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	514.48	514.46		509.708	\$ 18,878.43	\$ 2,775.13	\$2,780
52	Ss	34	60%	12.8	62%	85%	10%	90%	4	70%	4.75	\$172.73	\$172.73	\$345.46	\$36.36	P24.61	128.61		123.864	\$ 4,849.17	\$ 1,255.93	\$1,260
	111111																				Total value of all 52 trees in this study	\$270,250

		001	ISULT	ING /	KRBO	HIST	Ap	pra	aisal	Worl	ksheet,	675 Al	manor,	Sunny	/vale, (Californ	ia 10	0/5/201	5		
Ln	1	Ln 2	Ln 3	Ln 4		Locatio	on,		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
Vame (Initials)	"Green Book"	Sondition	Diameter	ocation %	Site	Contribution	Placement	Group	"Gm Bk" Species	Grn Bk" TA,	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	30" ATAa	Tainer	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
ced th ks me on pa unk cr s toget	e trunk asuring age 39 d oss sed ther. Th	cross more of the 9 ctional ose to	sectio than 3 th edit area fo tal nur	nal are in inche tion Gu or a tre mbers	ea of e es wei iide. e with are bo	ach tre re also multip	e. The a rounder ole main pove for	d do sten	sted crewn to to wn to to ms was ny refer	calcul	ctional are ole number lated by a	justed trur ea number er, using th dding the i tional area	s are bold ne adjuste ndividual	led above d trunk a trunk cre	e for refer rea conve oss sectio	ence. ersion enal					
s, as loome tre ction fr ultiple s	ong as ees wer rom Gu	each si e meas de 9th nalgam	em co sured a editio	ntribut at the n n, for r	es its arrow eason	propor points ablene	tionate on the ss. This	shai lowe res	re to th er truni ulted in	e cand k bole n each	opy. areas bet tree havir	or amalgai ween 2.5 a ng a single the apprais	nd 3.0 fee mainster	t above ç n diamet	rade, per er, as opp						
	ocation	where a was	the or used (iginal (a 55 in	31.8 in ch dia	ch diar meter t	neter re runk cr	adin oss :	ig was sectior	taken ı is 2,3	during fie	due to a si ld survey. hes. Adjus	As descri	bed abov	e in these	notes,					
ation lo	unk are iches: t	ne nun														i	i	}			

		测	Wa	ılte	r L	evis	son								***************************************							
		.,	001	1000	(111)	MIDO	11(12)	Α	ppr	aisal	Wor	ksheet,	675 Alı	manor,	Sunny	/vale, (Califorr	nia 10	0/5/2015	5		
			ļ		-	ļ			-								<u> </u>					
	Ln 1	1	Ln 2	Ln 3	Ln 4		Location	on		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
Tree#	Name (Initials)	"Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	"Grn BK"	"Grn Bk" Species	"Gm Bk" TA _r	"Green Book" Replacement Cost	"Green Book" Installation Cost	Installed Tree Cost	Unit Tree Cost	(A)TAa	<30" TAa	>30" ATAa	Ta _{incr}	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values
Apr	ora	isal	Le	ger	nd								ALL PROPERTY OF THE PROPERTY O									
							9th ed										<u> </u>					
																	NLA, ALC	A, ACF	, and ASLA	۱).		
													a Regional				104 (14)			D - 1	Į	
vote:	ISA is	s the pu	ublishe	r of the	e GPA,	and lo	cal ISA	chapte	rs ha	ve dev	eloped	the regiona	al data ir	our area	, the West	tern Chap	ter ISA (W	C-ISA)	(see "Gree	n Book" below).	
	<u> </u>				-4		The C	٠٠٠٠	+			-										
							n The G	uide	-													
					Map in			ssificat	ion &	Group	Assian	ment (user	I to have a	areen cov	er): refers	to standa	rd publicat	lion rea	uired for lo	cal reference.	published by WC-I	SA.
					this rep		100 010	Joinout	1011 0	Toroup	7 1001911		10 11410 4	9,00,,001	1							
					his repo				-													
.ocatio	on = 0	guided	by the	Guide	, derive	d by a	veragin	g the ra	ating	for Sit	e, Cont	ribution, ar	nd Placeme	nt.								
Green	Bk G	roup =	Group	assig	ned by	the co	mmittee	e/autho	rs of	"Green	Book".											
Freen	Bk S	pecies	= Spe	cies cl	assifica	ition as	signed	by the	com	mittee/a	uthors	of "Green	Book".									
													mittee/auth									
													at local nu									
≩reen	Book	Instal	llation	Cost:	= Cost,	averag	ed out	by "Gre	een E	Book" co	ommitte	e, to trans	port from nu	irsery to s	ite, prep h	ole & plar	nt, stake, w	rater, o	verhead, pr	ofit, etc		
							es (rep			***												
							by "Gr								<u> </u>							y
A)TAa	= (A	djuste	d) Tru	ık Are	a of th	e Appr	raised 1	tree. S	um o	f the cr	oss sec	tional area	s of all trun	ks that co	ntribute to	the cano	oy in equa	perce	ntages.	·		
'Aa = 1	Frunk	Area	of the	Appra	ised tr	ee. Ca	alculate	d direc	tly fro	m the t	runk di	ameter (he	nce trunk fo	rmula me	thod) by t	he formula	a: d2 X 0.7	85.				
\TAa =	Adju	usted 1	Trunk .	Area o	f Appr	aised t	tree, if o	over 30	" dbh	ı, adjus	ted by	CTLA form	ula to comp	ensate for	the "rate-	-of-tree-va	lue increa	se of a	large tree b	eing less than	its rate of increas	e in TA".
Aincr	= Tru	ınk Ar	ea Inc	ease.	Arithm	etic dif	fference	betwe	en th	e Trun	k Area	of the Appr	aised tree a	and the Re	placemer	nt tree (Lir	e 11 minu	s Line	6).			
lote: If	calcu	ulation	for "Tr	unk Ar	ea Incr	ease" y	/ields a	negati	ve nu	ımber (ı	due to s	mall tree s	ize), then n	ext colum	n, "Basic ¹	Tree Cost	", uses cos	st to ac	quire & plar	nt a smaller spe	ecimen from a nur	sery.
	~~~~															Trunk Are					T	

	T		I				A	ppra	aisal	Wor	ksheet,	675 AI	manor,	Sunny	/vale, (	Californ 	ia 10	)/5/2015	)		
Ln ·		Ln 2	Ln 3	Ln 4		ocatio	on		Ln 5	Ln 6	Ln 7	Ln 8	Ln 9	Ln 10	Ln 11	Ln 11.1	Ln 11.2	Line 12	Line 13	Line 14	Line 15
Name (Initials)	'Green Book" Page	Condition	Diameter	Location %	Site	Contribution	Placement	Grn BK" Group	'Grn Bk" Species	'Grn Bk" TA,	'Green Book" Replacement Cost	'Green Book" nstallation Cost	nstalled Tree Cost	Unit Tree Cost	A)TAa	<30" TAa	-30" ATAa	^{[a} incr	Basic Tree Cost	Appraised Value	Rounded-off Appraised Values

Thee Tag & To be Removed Per Current Site Plan	Author Recommands Ramoval Dus to Very Poor Condition or Elevated Risk of Failure	Trank 1 ph.}	Trunk 2 (in.)	Truck 5 (In.)	Trunk 4 (In.)	Trunk 6 (In.)	Trunk 6 (in.)	Adjusted Trunk Diameter Inches @ 34" A.G. (1+2-8+4+4)	"Protected Tea" per City of Somyvate Celinance (T.L." single or 34" multisten, at 46" above grade)	Common Name	Scientific Name (Genus, apecies)	Height and Comopy Spread	Headh & Structural Rainga (0-106% each)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lapsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Spiltout Evidence (Kate Elevation)	Topped or Severely Pruned in Past	Burled Root Crown (BRC) or Girdling Room (GR)	Shim Decay (Hote Elevation)	Codominant Mainstems with Severe Bark inclusion(s) (Note Height)	Root Extension Restricted In Planter	Roots Damaged on Grade from Mowing	Soil Moteture Deflott ("Drought Streas")	Molza :	Recommendations
*		7.0		Andrew Telephone Control of the Cont				7.0	no	erepe myrtle hybrid	Lageratroemia (Cult)	20/13	80/79	78% good	good		WATER THE PARTY OF				2 faet			*		Roots damaged on grads.	W, TB, RPZ
2 X	WINDS A	7,8						7.5	no	crape myrlle hybrid	Lagarztroemia (Cult)	20/15	BD/75	79% good	good									×		Roots damaged on grads.	
3 x		6.3						6.3	no	oak species (probably Guercus rubra which is red oak)	Quercus sp. (likely Q. fubra)	18/16	30/77	85% good	good		- CASERIA POLICIANI									Heeds viruciumal training pruning if tree is reliained.	
4 x		5.0	5.0	4,9	3.0	3.0	3.0	23,9	no	crepe myrtle hybrid	Legerstroemis (Cult)	20/13	80/50	78% good	good							at 6 inches elevation					
8 X		3.0	3.0	3.0	3.0	3.0		15.0	80	crepe myrtle hybrid	Lagaratroemia (Cult)	18/10	80/55	80%, fair	good							at 6 Inches elevation					
6 x		4.0	4.0	4,0	4.0	3.0		19,0	no.	ureps myrtle hybrid	Legeratroemia (Cult)	23/11	corco	70% yaod	pood							at # inches elevation					
7		81.1						\$1.1	yea	coast redwood	Sequoia sempervirenz	115/45	75/75	75% good	moderate to good								×	x	x	Wide codeminant mainstems but at 80 feet. Support install cable or remove one of the two mainstems at the fort. Increase projection. Note recht demapsed on grade.	Cable, or remove one of two main stems at 89 feet W. TB, RPZ
8 X		18.8						18.8	уех	European birch	Betuis penduis	30/25	35/35	35% paor	poor		SE								x	Localed in inigals turt.	
9 X	x	7,9						7.9	ne	creps myrtle hybrid	Lagerstroemia (Cuit)	24/29	80/20	25% very poor	moderate	₩			The state of the s			ad & fent	The state of the s			High risk of codominant mainstem spillout. Recommend remove tree.	
19 X		24.8						24,5	yes	coast beefwood	Coavarina stricta	65/35	80/40	50% fair	good							at 30 feet		x	x	Tree in irrigated turf. Roote damaged on grade, Use cabling and/or though-both bracing if tree is refaired.	
11		41.8						41.8	увъ	cossi redwood	Sequula semperrirens	85/35	<b>90/7</b> 0	75% good	moderate Io good	3								×	x	Tree in Intigated burf. Roots damaged on grads.	W, TB, RPZ
12		81,8						51,3	yes (note this tree measured at bulgs which increased the apparent trunk diameter at 4.0 fent elevation)	coasi (edwood	Sequala sempervirens	105/35	80/75	79% good	moderate lo good									x	x	Tree in krigated turf, Roots damaged on grads,	W, TB, RPZ
13		75.7						75.7	yes	coast redwood	Sequola sempervirens	125/30	85/80	BSK good	good	w	SE								x	Located in in/gated by groundcover uses (Petich Helcity System Sevennent) o	Maintain existing fence protection and stigation, May need to sugment fencing with additional chain link panels.

Tree Tog #	Current She Plan Author Recommends Removal Due to Very Poor	Condition of Elevated Risk of Fallure	Trunk 1 (In.)	Trunk 2 (IIs.)	Trunk 3 (in.)	Trunk 4 (in.)	Trunk 5 (In.)	Trunk 6 (in.)	Adjusted Trunk Dismeter Inches @ 54" A.G. (1-2-3-4-4-5)	Protected Tear par City of Summy-ule Ordinance (12.1" single, or 38" militaren, at 48" above grads)	Common Name	Scientific Name (Genus, species)	Height and Canopy Spread	Heefit & Structura) Ratings (0-100% sach)	Overall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lapsided Canopy (Direction Noted)	Trunk Lean (Direction Noted)	Historical Stem Splitbut Evidence (Note Elevation)	Topped or Severely Fruned in Past	Burled Roat Crown (BRC) or Girdling Roots (GR)	Stem Oscay (Note Elevation)	Codominant Mainstems with Severa Bark Inclusion(e) (Note Height)	Root Extension Restricted in Planter	Roofs Damaged on Grade Irom Mowing	Soll Moleture Deficit ("Drought Streen")	Notes	Recommendations
14			36,5						38,5	Yes	casel fedwood	Sequola semperrirens	110/39	75/75	75% good	moderat to good										X	Localed in Inigated by groundcover area (Helph Helphy System Essanteni)	Maintain existing lence protection and trigation, May need to augment tencing with additional chain link penels.
15 7	{suggest	removal) e	est. 24						est 24	yes	Monterey plas	Pinus radiata	45/30	88/56	59% fair	poor to moderat	•	£								×	Recommend removal of tree It condition declines below current 50%, overall condition rating,	
18 2			36.0	35.0	30.0				102.0	yes	dec Jemsde	Fraxinus uhdel	45/55	55/50	53% feir	poor to moderat							3 feet		-	×		
17 3	X	•	43.1						43,1	yes	ahamei ash	Frazinus undel	45/45	30/40	35% poor	poor					GR					x		
18	NAME OF THE OWNER OWNER OF THE OWNER OWNE		43,3						43.3	yes	shamel ash	Frazinus uhdel	45/35	19/50	55% fair	moderat	. E	E								x	Crowded codominant mainstens fork at 8 feet.	W, TB, RPZ
19 X			8.8	6.5					12.3	пъ	European birch	Betvia pendula	35/10	70/70	70% good	moderati								x		x	Tree is intigated. Roots deneged on grade.	
20 X			12.7						12.7	yes	European birch	Betuia pendula	45/17	85/46	53% fair	moderati		277770700					at 11 feet	x		x		
21 X			9,8	8.1					17.0	ло	Guropean birch	Betula pendula	35/29	to/45	50% fair	moderate	8	S					at grade elevation	×	A 111	x		
22 X		-	7.5						7,5	ño	European blich	Belvia pendula	38/12	60/55	57% tair	moderate	E	E			10.70			x		x		
23 X			11.8	10,7					22.3	ho	European birch	Betula pendula	49/20	85/35	80% fair	moderate	w			-			at 12 Inches elevation	x		x		
24 X			7.0	an an annual supply pro-					7.0	50	European birch	Belvia pendula	30/15	65/65	69%, fair	moderate								x		×		
25 X		1	16.5						10.0	усэ	London plane cultivar	Piatanus x ecerifolia (Cult.)	35/35	8077\$	78% good	moderate											Summer powdery mildew fungus is occurring on this tree, industring that this cutilivar of plane free its susceptible to this disease.	_
25 X	*Production of the state of the	1	14.7						14,7	уея	London plane cultivar	Platarius y acerifolia (Cult.)	39/30	75/75	75% good	moderate		the state of the s						×			Summer powdery mildew lungus to occurring on this tree, indicating that this califixat of plane tree in susceptible to this disease.	-
27 X		,	7.4						7,4	no	London plane cultivar	Platanus x aceritolia (Cult.)	25/20	69/70	57% fair	роот					Secretary and the secretary an						Summer powdery mildew langue is accounting on this irre, indicating that this cultivar of plane tree is susceptible to this disease.	-

Tres Tag 8 To be Removed Per Corrent Site Plan	Author Recommends Remoral Day to Very Poor Condition or Elevated Risk of Failure	Trunk 1 (in.)	Trunk 2 (in.)	Trunk 3 (in.)	Trunk 4 (5n.)	Trunk 8 (In.)	Trunk 6 (n.)	Adjusted Trunk Dismeter (Inches @ 54" A.C. (1+2+3+4+3)	*Protected Tra** per City of Summysla Ordinance (T.2.** eftept, or 38** multistem at 46** above grades)	Common Name	Scientiic Name (Genus, species)	Keight and Canopy Spread (ft.)	Health & Structural Refunes (0-180% each)	Gverall Condition Rating (0-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopelded Canopy (Direction Hoted)	Trunk Lean (Direction Noted)	Historical Stem Spiltour Evidence (Note Elevation)	Topped or Sevarely Pruned in Past	Burled Roat Crown (BRC) or Girdling Roats (GR)	Stem Decay (Note Elevation)	Codominant Mainsterne with Severe Bark Inclusion(e) (Note Height)	Root Extension Restricted in Planter	Roots Demaged on Grade from Mowing	Soil Moseture Design ("Grought Stress")	Motes	Recommendations
28		11,5						11.0	ne	London plane cultivar	Pialanus x acerifolia(Cuit.)	28/25	80/90	90% good	moderate to good												W, TB, RPZ
29		39.4						30.4	уев	coasi ledwood	Sequoia sempervirens	35/30	40/40	49% poor	poor								×		×	Extreme soil molitizin difficit. Tree could improve it break out the pavement and outh materials, provide the tres with larger open soil root zone area, and hearily irrigate the root zone from now convert.	W, TB. RP2
30 X		10.8						10.8	no	London plane cultivar	Pletarus x acertinia (Cult.)	30/23	75/75	75% good	moderate	E										Summer pewdery mildern langues is occurring on this tree, indicating that this cultivar of plane tree is exaccytible to this disease.	
31 X		9.7						9.7	ño	London pjane zultivar	Platanus x acerifolis(Cult.)	30/25	80/75	78% good	moderate	Ę										Summer powdery mildew lungue is occurring an this tree, indicating that this cultivar at plans tree is susceptible to this disease.	
32 X		24.9	22.4					47,3	yes	shamei ash	Frexinus uhdel	40/40	45/45	45%, poor	poer							at 2 feet and other elevations above grade.			x	Tree could improve it break out the pavement and curb materials, provide the tree with larger open soil root zone area, and nearlly lirigate the root zone from now onward.	_
33 X		43.1						43.1	y*s	shamel ash	Frazinus uhdel	45/35	65/60	84%, Fair	moderate to good	5		CHANGE OF THE PARTY OF THE PART				various sievations			x		
34 X		38.8						38,8	yes	shamel ask	Fraxinus Uhdei	45/55	80/50	SS% fair	poor to moderate										×		-
35 X	x	33.7						33.7	yes	shamel ash	Frazdnoz uhdel	45/46	20/20	20% чегу росс	very poor						hioughout tree				x	Author recommends removal due to very poor overall condition rating.  Tree to be removed per site plan.	
36 X		39,2						39,2	yes	shamel ash	Fracinus undel	50/55	45/45	45% poor	poor					ı	tree				x		
37 X		28,3						28.3	yez	coast redwood	Sequola sempervirens	49/25	75/65	70% good	moderate		5								X		
18		28.2						28.2	уаз	coast rethrood	Sequola sempervirens	45/20	79/75	75% good	moderate										×	New estation footprint will be approx. 19 to 12 feet from trunk edge, which may result in a evers impacts to this tree in terms of above and below ground tree demages. May need to remove tree,	W, TB, RPZ
33		17,2	12.8					39,0	yes	coast redwood	Sequola sempervirens	40/19	35/35	35% poor	paor						hroughouf tree	zero lo 3 feet elevation above grade			x	New exterior footprint will be approx. 19 to 12 feet from frank edge, which may result in severe impacts to this tree in terms of above and below ground tree damages. May need to remove Iree.	W, TB, RPZ
49 X		6.8						8,8	ne	shamel ash	Fraxinus uhdei	23/9	95/75	78% good	good			The state of the s									
41 X		8.4						8,4	no	shamel with	Frazinus whilei	23/9	85/75	72% good	good												

# CAT ser	To be Removed Per Current Site Plan	Author Recommends Removal Due to Very Poor Condition or Elevated Risk of Patture	Trunk t (In.)	Yeunk 2 (in.)	Trunk 3 (In.)	Trunk 4 (In.)	Trees A ffe	Trunk o (In.)	Adjusted Trunk Diameter	(1+2+3+4+3)	"Protected Tres" per City of Summy be Ordinance (12," in fage, a gal" multistem, at 48" above grede)	Common Name	Scientific Name (Genus, species)	Height and Canopy Spread	Heelin & Structural Matings (0-100% meh)	Overall Condition Rating (6-100%)	Live Twig Density (Very Poor, Poor, Mod, Good, Exc.)	Lopelded Canopy (Otrection Noted)	Trunk Lean (Offwation Noted)	Historical Sters Splitour Evidence (Note Etevation)	Topped or Severaly Prunad in Past	Buried Root Crown (BRC) or Girdling Roots (GR)	Stem Decay (Note Elevation)	Codominant Mainstems With Severe Bark Inclusion(s) (Note Height)	Roof Extension Restricted In Planter	Roots Dameged on Grade from Mowing	Soil Moisture Deffort ("Grought Strees")	Notes	scommandations
42			15.7						,	15.7	yes	coast redwood	Sequois sempervirens	35/18	35/55	55%, fair	poor to moderat	×	н								×		W, TB, RPZ
43			est, 30	es1. 22					es.	1. 52	уез	coast redwood	Sequois sempervirens	55/22	7 6/80	70% good	moderat to good	•						zero to 5 feet elevation above grade				Use of arboths cables may be beneficial for Ithis Irea.	W, TB, RPZ, Cable Installation by Nn ISA Certified Arborist
44	*		26.4						21	5.4	yes	coast redwood	Sequois sempervirens	50/18	79/65	583: Yait	poor to moderat								7		×	Sweeps southeast (awap trunk form).	
45	x	<b>x</b>	34.1						34	4.1	yes	slik oak	Grevilles robusts	35/35	65/36	35% poor	poor to moderate	, sw		×	x				x			Poor specimen that should be ramoved from alte, even if the project is not built.	
45			18.9						11	5.0	yes	coast redwood	Sequola zempervirens	35/18	40/40	40% poor	poar										x	Tree appears to be unirrigated. To be removed per plan.	W, TB, RPZ
47	x		31,8						31	1.0	уня	elik oak	Grevillea robusta	50/30	40/50	44% poor	poor to moderate			x	x						x	Poor specimen that should be removed from afte, even 6 the project is not built.	
48	x	x	20.8						20	.0	уев	sijk oak	Grevilles robusts	50/25	30/20	25% very poor	poor			x	×	GR					x	Vary poor specimen that should be removed from alls, even if the project is not built.	
49	,		29.3			Wall			29.	.3 (me:	yes easured at 2 feet efevation)	atlas cedar	Gedrus atlandos	60/35	85/90	84% good	good												
50 >			11.0	10,0	10.0	10.0	9.0		59,	.0	yes	European olive	Oles surapaes	30/25	49/35	37% poor	poor to moderate	s			x	-	hroughout Tree			1	x	Tree experiencing severe disback, assumably associated with lack of proper trigistics, and extended drought conditions. WLCA did not lest soil for risidire mentium content as part of this billial fire wholy assignment, but it retained for construction period monitoring. WLCA will be helling soil moleture and making specific recommendations accordingly.	-
51 X			25.6					VA	25.0	6	уев	coast redwood	Sequoia sempervirens	45/20	35/35	35% poor	poor								×		x	Tree could improve If break out the parement and curb materials, provide the tree with larger open soil root zone area, and breadly linguist the root zone from now ownerd.	
52 X			12.8						12.8		yes	count radwood	Sequois sempervirens	20/10	79,55	80% fair	moderate								×		x	Tive could improve il break out the povement and curb materials, provids the trea with larger open soil root zone area. And brearby trigules the root zone from now convard.	-

VLCA surveyed only those tree specimens within the bounded area denoted by a heavy black line on the tree map markup attached to the arborist report.

. Diameters were measured at 4,0 feet above grade using a forestry D-tape that converts circumference to an average diameter, Multi-stem specimens such as the crepe myrtles were estimated visually,

. Heights is the taller specimens were measured using a Nikon 550 Forestry Pro digital hypsometer.

. Appraisal valuation was performed using trank formula method and western chapter International Society of Arboricalizare texts for species classification data and group assignment data, etc. See attached appraisal worksheet for transparent calculation data,

#### rotection and Maintenance Specification Codes (If Applicable):

Protection and Prantemance's speciments used. (If Approximetry (In posts driver 21' into the greated, 5 to 8 feet on center max, specing.

RB: Read particular non-faces, death link, whi? I fail the greated physical faces of the transport of the